

IN THE CLAIMS

1.-20. Cancelled.

21. (Amended) A control for use in a ~~variety of models~~ of a device, the device having at least two models, the control device capable of ~~having~~ operating a plurality of output transducers, the output transducers converting electrical energy to some other form of energy, the ~~device~~ control comprising:

a selection means for energizing a ~~first~~ plurality of circuits ~~circuit~~, each of the plurality of circuits capable of being completed by one of the plurality of output transducers; which could contain a first output transducer;

~~a sensor~~ sensing means for scanning each of the plurality of circuits to determine ~~whether~~ which of the plurality of circuits contains the first one of the plurality of output transducers is present; and

limiting means for limiting the operation of the control ~~to only those output transducers~~ to the model for which the required output transducers are determined to be present by the sensing means within a the device plurality of circuits.

22. (Previously Presented) The control of claim 21 where the output transducers are display elements.

23. (Previously Presented) The control of claim 21 where the output transducers are solenoids.

24. (Previously Presented) The control of claim 21 where the output transducers are motor windings.

25. (Previously Presented) The control of claim 21 where the output transducers are heating elements.

26. (Previously Presented) The control of claim 24 where the selection means is a relay.

27. (Amended) The control of claim 21 ~~further comprising a second circuit, and~~ where the sensor scans ~~the second circuit~~ more than one of the plurality of circuits to determine the presence ~~a second of~~ output transducers.

28. (Amended) The control of claim 27 where the selecting means selects which of the ~~first circuit and the second circuit~~ plurality of circuits is scanned by the sensor.

29. (Previously Presented) The control of claim 21 where the limiting means determines whether there is a fault in the output transducer.

30. (Amended) The control of claim 29 where the sensor detects whether a component other than ~~the first~~ an output transducer is in ~~the first circuit~~ one of the plurality of circuits, the component being distinguishable from both ~~the~~ an output transducer and from a failed output transducer by a scan using the sensing means.

31. (Amended) A control for operating with a plurality of models, each model having a number of display output transducers, the display output transducers indicating to an operator the operating mode of the model, comprising:

selection means ~~to attempt~~ to energize a plurality of the circuits, each of the plurality of circuits capable of containing at least one ~~that could contain~~ display output transducers;

sensing means for scanning the plurality of circuits to identify which of the plurality of circuits contains at least one display output transducers ~~are present in the model~~; and

a limiting means for limiting the operation of the control to a first model for which the required ~~the~~ display output transducers are found ~~identified~~ by the sensing means.

32. (Amended) The control of claim 31 further comprising:
means for enabling the selection means, the sensing means, and the limiting means each time a user presses a key ~~is pressed~~.

33. (Previously Presented) The control of claim 32 where a single sensor of the sensing means scans more than one of the circuits to determine the presence of more than one of the output transducers.

34. (Previously Presented) The control of claim 33 where the circuits the single sensor scans are selected by the sensing means.

35. (Amended) The control of claim ~~34~~ 31 where in addition to the plurality of models using the display output transducers to indicate the operating mode of the model, the control also operates models using position switches to indicate the operating mode, a pair of contacts of the position switches occupying the circuit which contains display output transducers on other models.

36. (Previously Presented) The control of claim 35 where the sensing means scans the circuit selected by the selection means to determine the operating mode indicated by the position switches.

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Application No: 10/082,481

Page : 5

37. (Amended) A method of operating a control, the control ~~having a first operating mode and a second operating mode capable of operating a first model and a second model,~~ comprising:

energizing a first circuit;

detecting the presence or absence of a first transducer in the first circuit by scanning the first circuit;

enabling the control to be operable with ~~operate in the first operating mode~~ the first model if the first transducer is present in the first circuit; and

enabling the control to be operable with ~~operate in the second operating mode-~~ the second model if the transducer is absent from the first circuit.

38. (Previously Presented) The method of claim 37 further comprising:

detecting whether the first transducer has failed.

39. (New) The method of claim 37 further comprising performing a scan of the components within the model to identify the operating modes of the model.